

JVC

MICRO COMPONENT SYSTEM

UX-A3 B/E/G/GI/EN



COMPACT
disc
DIGITAL AUDIO

Area suffix

B	U.K.
E	Continental Europe
G	Germany
GI	Italy
EN	Northern Europe

1 Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer or responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by (Δ) on the schematic diagram and Parts List in Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List in Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.

When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

5. Leakage current check (Electrical shock hazard testing)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

Do not use a line isolation transformer during this check.

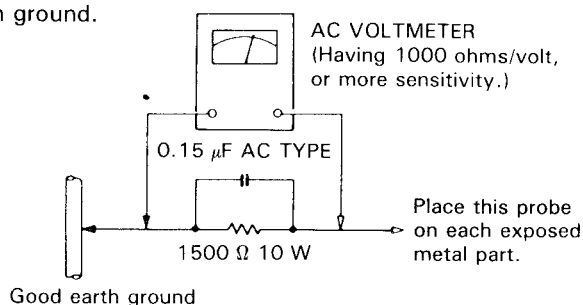
- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
- Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

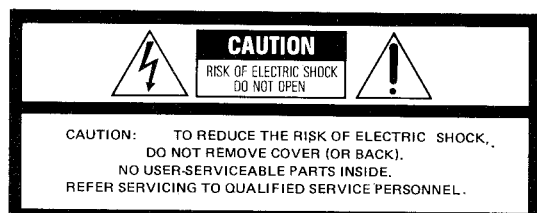
Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.).

This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

2 Safety Precautions about UX-A3

IMPORTANT FOR LASER PRODUCTS PRECAUTIONS

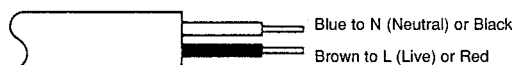
1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. **CAUTION:** The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD door is open. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.

6. **CAUTION:** The laser is able to function, if safety switches are out of function. The laser light is invisible, avoid exposure, do not disassemble the laser unit, but replace the complete unit.

IMPORTANT (In the United Kingdom) Mains Supply (AC 240 V, 50 Hz only)

IMPORTANT

Do not make any connection to the larger terminal coded E or Green. The wires in the mains lead are coloured in accordance with the following code:



If these colours do not correspond with the terminal identifications of your plug, connect as follows:

Blue wire to terminal coded N (Neutral) or coloured Black.

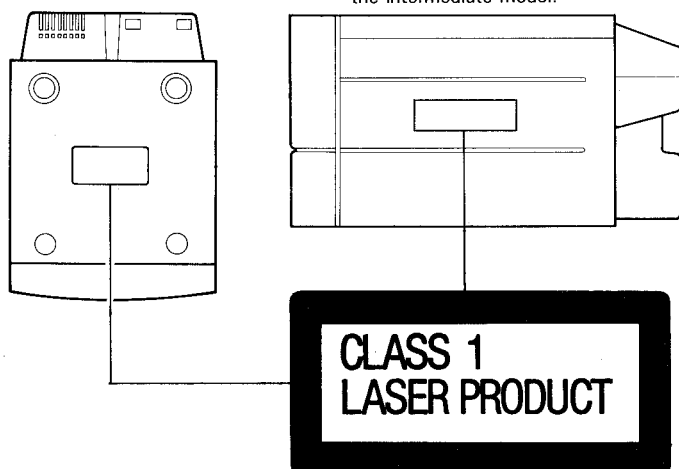
Brown wire to terminal coded L (Live) or coloured Red.

If in doubt — consult a competent electrician.

REPRODUCTION OF LABELS AND THEIR LOCATION

CD player/tuner section

The Class A label pasting position was changed from the intermediate model.

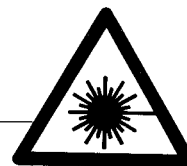
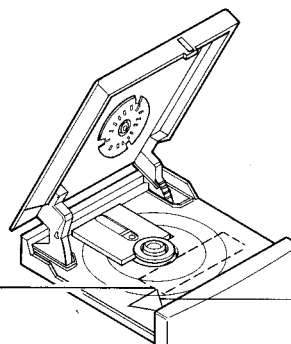


Obs:
Apparaten innehåller laserkomponent av högre laserklass än klass 1.

ADVARSEL-Der vil udstråles osynlig laserbestråling når apparatet åbnes og aflåsningsmekanismen frigøres. UNDGÅ AT BLIVE UDSET FOR LASERBESTRÅLING.

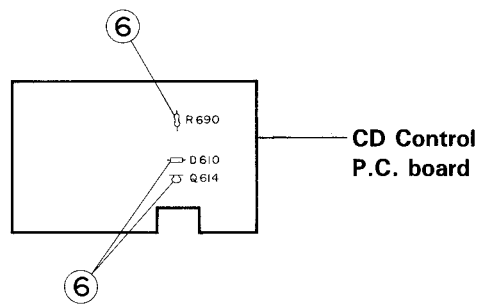
DANGER-Invisible laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM.

WARNING:
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

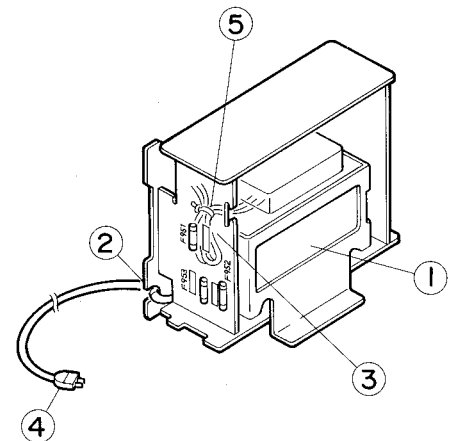
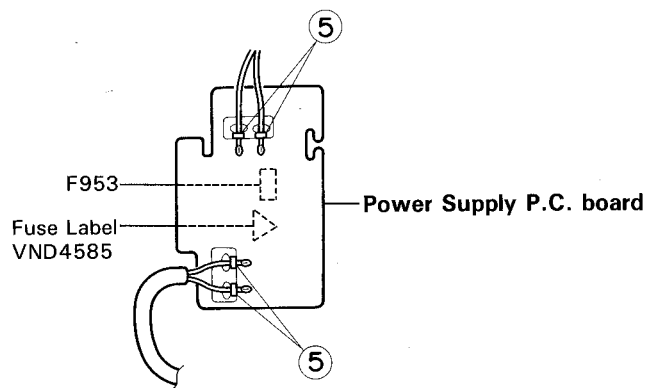


VAROITUS! Laite sisältää laserdiodin, joka lähettää näkymätöntä silmille vaarallista lasersäteilyä.

< CD, Receiver Sections >



< Power Supply Sections >



■ Important Management Points Regarding Safety

(Item demanding special safety precautions ... UX-A3 B/E)

Ref. No.	Description
1	Make sure that the parts number of the power transformer is No. VTP66T2-24ABS (UX-A3 B/E/G). Make sure that the setscrew is free from any looseness.
2	Strain relief is "4N-4", which must be fitted by the specific HEYCO tool and secures the power cord tightly.
3	The patterns of the primary circuit and adjacent circuits of printed circuit board should be free from round soldering protrusion in order to secure sufficient creeping distance.
4	Coloring to indicate polarity of power cords is as shown in figure. Attachment plug indicator: (S) KP-419C Cord: ◁ VIDEO ▷
5	Wires, etc. must be firmly clamped or fixed at the positions indicated in the above diagram so as not to contact with live parts, movable parts, heated parts and sharp edge parts.

Ref. No.	Description
6	Since heat is generated from the following parts, these parts should no be located adjacent to the electrolytic capacitor, etc. Tape Deck sections: D952, ICA05, ICA06, RA306 RA308, RA317 CD, Receiver sections: QF07, R690, Q614, D610, RF34 R641
7	Coloring to indicate poilarity of power transformer wires is as shown in figure.
8	parts on the back side of P.C. board must be secured spacer and bond, etc. (only in CD, Receiver sections)
9	AUX IN 3-pin wire must be arranged outside system wire.

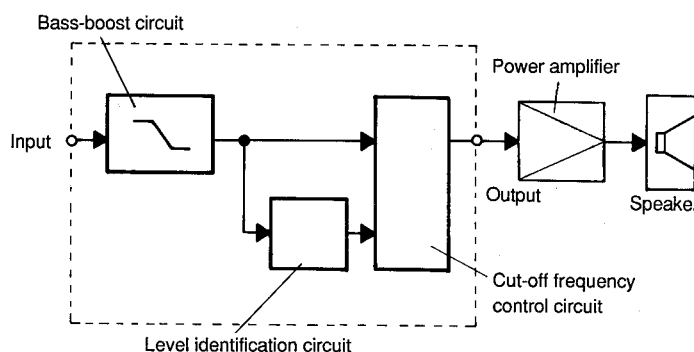
3 Features

- Disc-size micro component system consisting of 4 units, designed for stacked or side-by-side installation**
 - Consists of 4 units; a cassette deck/amplifier and a CD player/tuner, plus a pair of speakers.
- Newly-developed Active Hyper-Bass circuit for low-frequency sound reproduction**
 - The cut-off frequency is controlled by a level identification circuit to reinforce low-frequency sound.
- 24-key remote control unit opens and closes the motor-driven CD door, in addition to the usual CD and tuner operations**
 - Remote control controls power on/off switching, volume control, Active Hyper-Bass on/off switching and a variety of editing functions.
- Green-colored large backlit LCD (Liquid Crystal Display)**
 - Display includes 15-tune program chart, function mode, etc.
- Multi-function CD player**
 - Capable of auto-edit recording and programmed play.
- U-Turn auto-reverse mechanism with Dolby* B NR**
 - Auto tape select mechanism.
 - Metal (type IV) and CrO₂ (type II) tape can be played back for superior tone quality.
 - CrO₂ (type II) tape recording capability.
- 2-Band digital synthesizer tuner with 30-station (15 FM and 15 AM (MW/LW)) preset capability**
 - Seek/manual tuning.
- Timer/clock function**
 - Timer on/off with preset volume function.
 - Wake-up volume setting with 5 different levels.
 - Sleep timer can be set for up to 120 minutes.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

• Active Hyper-Bass circuit

Generally, since low-frequency sound is not reproduced satisfactorily by small speakers, a bass-boost circuit is used to reinforce low-frequency sound. However, if the volume is turned up with bass-boost reinforcement, low-frequency sound is easily saturated which results in distortion. As shown in the diagram, the Active Hyper-Bass circuit incorporates a control circuit in which the cut-off frequency of low-frequency sound is varied in the bass-boost circuit, with the cut-off frequency controlled by instructions from a level identification circuit. With these circuits, when the volume increases, low-frequencies are sharply attenuated, which prevents distortion caused by the saturation of low frequencies.



4 Specifications

SPECIFICATIONS

Compact disc player section

Type	: Compact disc player
Signal detection	: Non-contact optical pickup
Number of channels	: 2 channels
Frequency range	: 20 Hz – 20,000 Hz
Dynamic range	: 76 dB
Signal-to-noise ratio	: 76 dB
Total harmonic distortion	: 0.1 %
Wow & flutter	: Less than measurable limit

Radio section

Frequency ranges	: FM 87.5 – 108 MHz AM: (MW) 522 – 1,629 kHz (LW) 144 – 288 kHz
Antennas	: Loop antenna for AM (MW/LW) External antenna terminal for FM (75 ohms)

Tape deck section

Track system	: 4-track 2-channel stereo
Motor	: Electronic governor DC motor for capstan
Heads	: Hard permalloy head for recording/playback, 2 gap ferrite head for erasure (Combination head)

Frequency response	: 50 – 15,000 Hz (with metal tape)
Wow and flutter	: 0.16 % (WRMS)
Fast wind time	: Approx. 120 sec (C-60 cassette)

Speaker section (each unit)

Speaker (Impedance)	: 10 cm x 1 (8 Ω)
Dimensions	: 160(W) x 250(H) x 202.5(D) mm
Weight	: Approx. 2.1 kg

General

Power output	: Max. 27 W (13.5 W + 13.5 W) at 8 Ω 19 W (9.5 W + 9.5 W) at 8 Ω (10 % THD)
Output jacks	: Speaker x 2 (matching impedance 8 Ω – 16 Ω) Headphones (0 – 30 mW/32 Ω) (matching impedance 16 Ω – 1 kΩ)
Power supply	: AC 240 V, 50/60 Hz, (UX-A3B) AC 230 V, 50/60 Hz, (UX-A3GI) Ext. DC 12 V (Use the specified specified car adapter (marked available from an audio store))
Power consumption	: 55 W (with POWER SW ON) 4 W (with POWER SW STANDBY)
Dimensions	: 458(W) x 258(H) x 212(D) mm including knobs
Weight	: Approx. 8.7 kg
Accessories provided	: Remote control unit (RM-RXUA3) Battery "R03" x 2 (for the remote control) FM feeder antenna x 1 Loop antenna stand x 1 Speaker cord x 2 Antenna adapter x 1

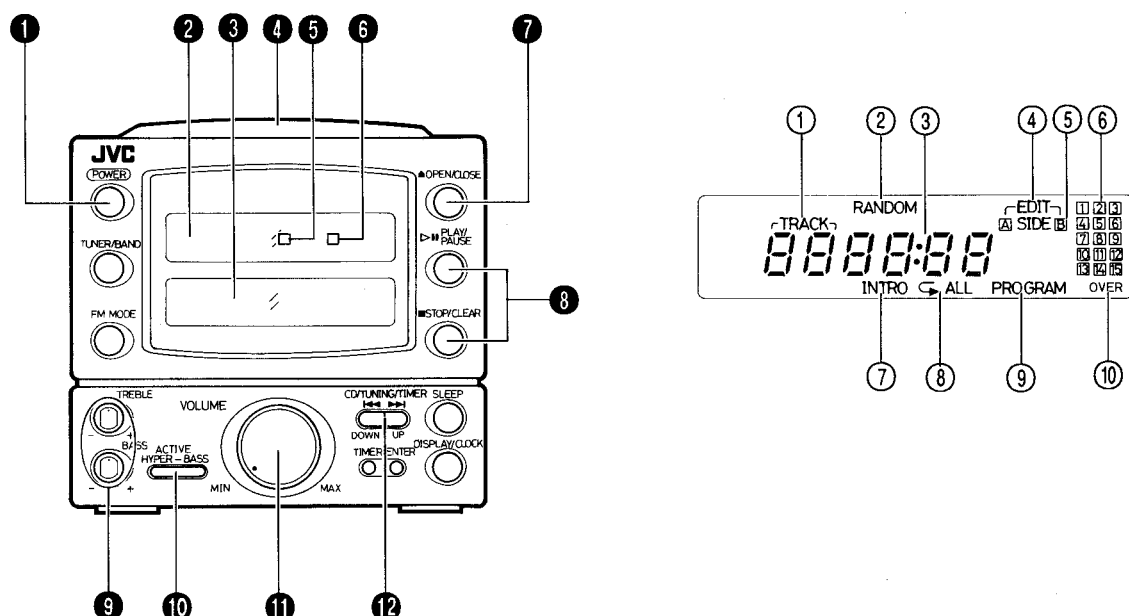
Design and specifications are subject to change without notice.

Printed in Japan
VNN 9189-251
0594-UO

5 Instructions (Extract)

NAMES OF PARTS AND THEIR FUNCTIONS

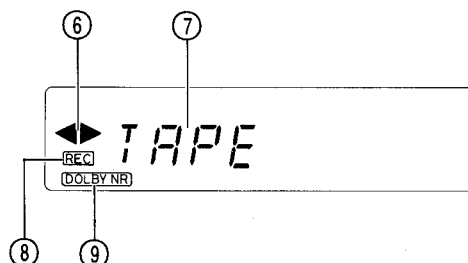
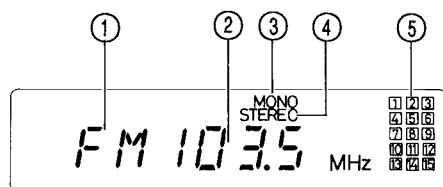
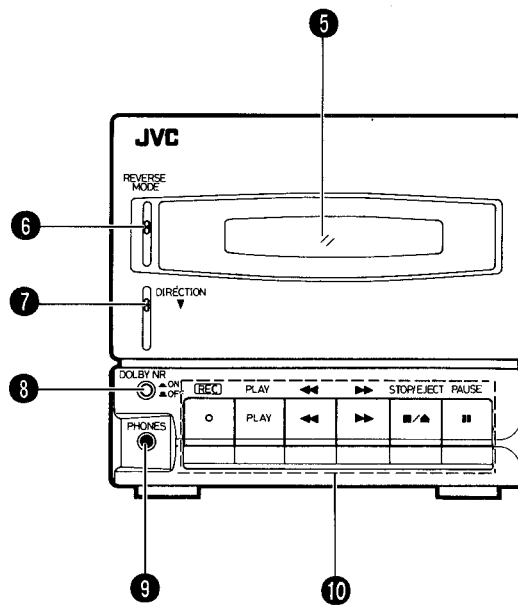
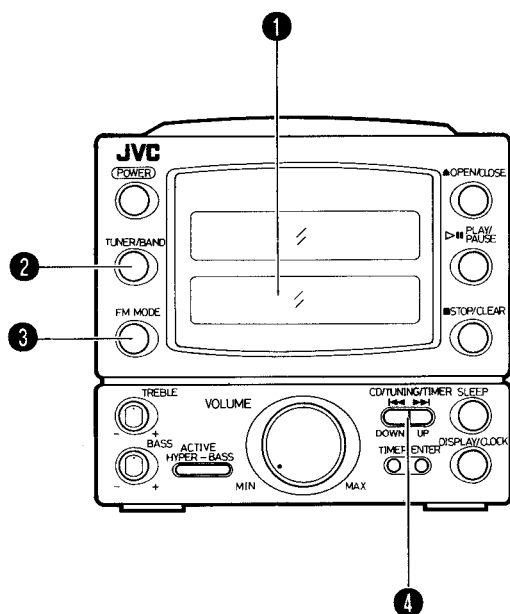
CD player/General section



- ① POWER button
Press to switch the power on or off.
- ② REMOTE SENSOR section
- ③ Display window
 - ① Function/Track number display
 - ② RANDOM playback indicator
 - ③ Playback time display
 - ④ EDIT recording mode indicator
 - ⑤ SIDE (A)/(B) indicator
 - ⑥ Music calendar display
 - ⑦ INTRO scan indicator
 - ⑧ Repeat playback indicator
 - ⑨ PROGRAM mode indicator
 - ⑩ OVER indicator
- ④ CD door
- ⑤ Active Hyper-Bass indicator

- ⑥ Power STANDBY indicator
- ⑦ CD door OPEN/CLOSE button (▲)
- ⑧ CD operation buttons
PLAY/PAUSE button (▶||):
Press to play a disc and to stop temporarily.
STOP/CLEAR button (■):
Press to stop playing a disc and to cancel programmed playback.
This also sets the CD mode.
- ⑨ TREBLE•BASS controls
- ⑩ ACTIVE HYPER-BASS button
- ⑪ VOLUME control
- ⑫ CD search buttons (DOWN ◀◀, UP ▶▶)
Press to locate the beginning of tunes and to start forward and reverse search operations.

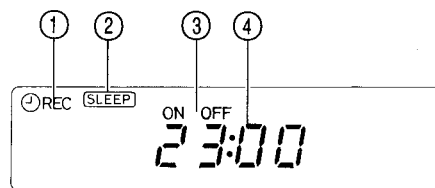
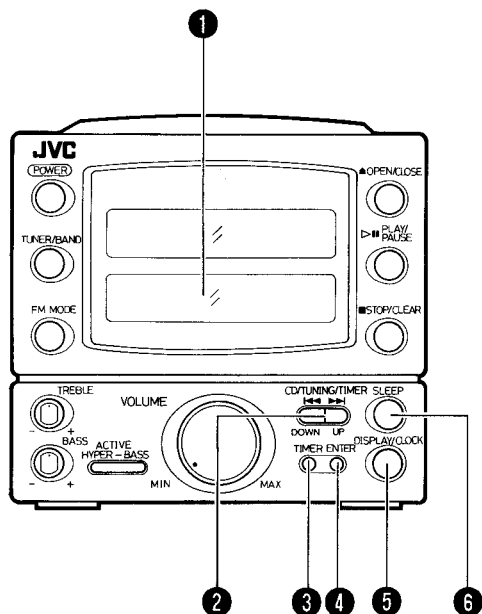
Tuner/Deck section



- 1** Display window
- ① Band indicator (FM/AM (MW/LW))
 - ② Radio frequency display
 - ③ MONO indicator
 - ④ STEREO indicator
 - ⑤ Preset station display
 - ⑥ Tape direction indicator (◀, ▶)
This indicator remains lit even in the CD and tuner modes.
 - ⑦ Tape mode display
 - ⑧ Recording indicator (REC)
 - ⑨ DOLBY NR indicator (DOLBY NR)
- 2** TUNER/BAND button
- Press to select the tuner mode.
 - Press to select the band (FM/AM (MW/LW)).
- 3** FM MODE button
- 4** TUNING button (UP/DOWN)
- 5** Cassette holder
- 6** REVERSE MODE switch
- ↔ : For single-side recording or playback
 - ↺↻ : For both-sides recording or playback
 - ↻ : For continuous play

- 7** DIRECTION switch
- Press to change the direction of tape travel.
- 8** DOLBY NR button
- Set to ON () when recording or playing back tapes using the noise reduction system.
- 9** PHONES jack (3.5 mm dia. stereo mini plug)
- Connect headphones (impedance 16 Ω - 1 kΩ) to this jack. The speakers are automatically switched off when headphones are connected.
- 10** Cassette operation buttons
- REC : Press this button with the PLAY button to start recording.
 - PLAY : Press to play the tape.
 - ◀◀ : Press to fast wind the tape from right to left.
 - ▶▶ : Press to fast wind the tape from left to right.
 - /▲ STOP/EJECT: Press to stop the tape. Pressing this button after the tape stops opens the cassette holder.
 - || PAUSE : Press to stop the tape temporarily. Press again to release the pause mode.

Timer/Clock section



- ① Display window
 - ① Timer mode indicator
 - ② SLEEP indicator
 - ③ Timer indicator (ON/OFF)
 - ④ Time display
- ② TIMER buttons (UP/DOWN)
 - Set the time or timer setting.
- ③ TIMER button
 - Set the timer setting or timer ON/OFF (to reset or cancel the timer).

- ④ ENTER button
 - Register the time or timer setting.
- ⑤ DISPLAY/CLOCK button
 - Set the time and current time displays.
- ⑥ SLEEP button

REMOTE CONTROL UNIT

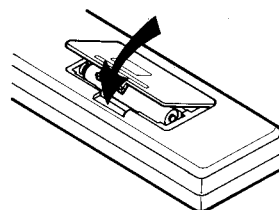
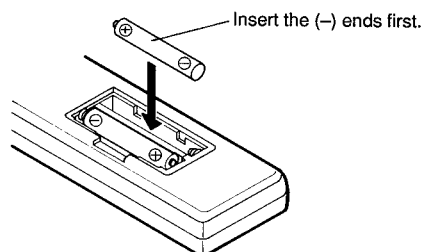
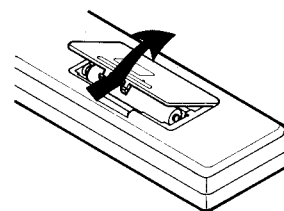
Preparation before use

- **Installing batteries in the remote control unit**
 1. Remove the battery cover from the back of the remote control unit.
 2. Insert two "R03" size batteries.
 3. Insert the batteries with the (+) and (-) terminals matching the indication inside the battery compartment.
 3. Replace the cover.
- **Battery replacement**
 - When the remote control operation becomes unstable or the distance from which remote control is possible becomes shorter, replace the batteries with new ones.

Using the remote control unit

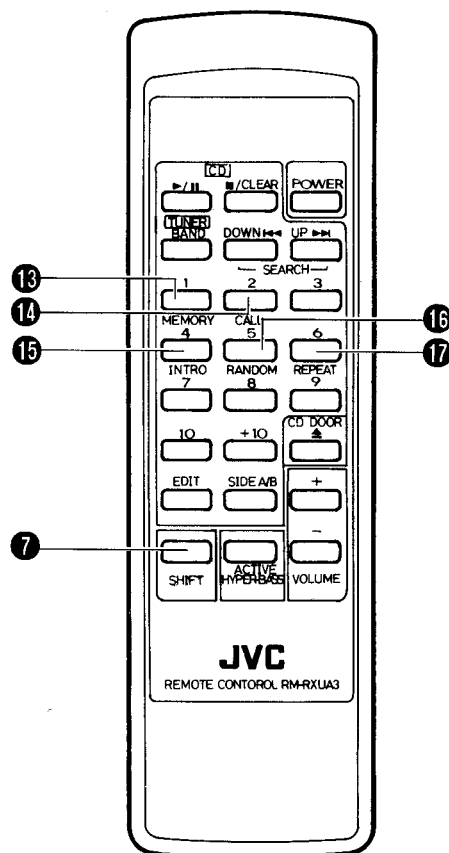
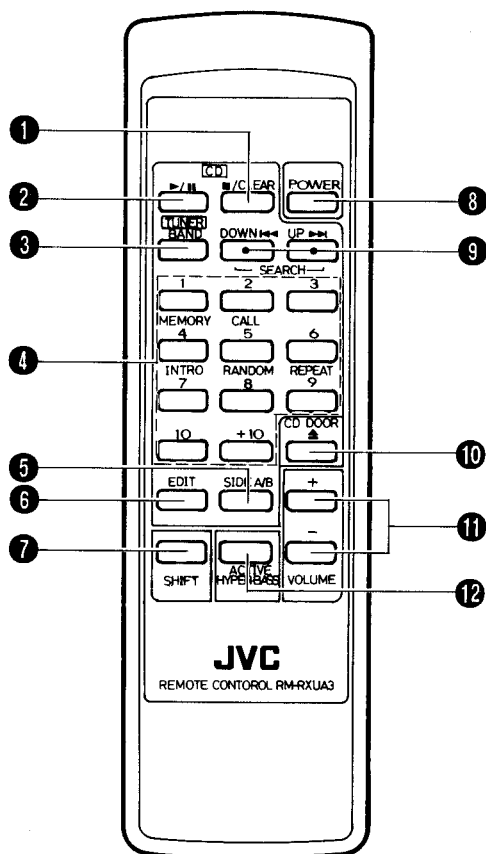
To use the remote control unit, point it at the REMOTE SENSOR and press the buttons gently and firmly. Remote control operation is possible within about 7 m (approx. 23 ft). However, since the remote control range is less when the unit is used at an angle, use directly in front of the REMOTE SENSOR, as far much possible.

Do not expose the REMOTE SENSOR to strong light (direct sunlight or artificial lighting) and make sure that there are no obstacles between the REMOTE SENSOR and the remote control unit.



The following operations can be performed using the remote control unit.

- Check the functions of the operation buttons carefully and operate them correctly.



- ① ■/CLEAR: Stop/clear button
- ② CD ►/||: CD mode/play/pause button
- ③ TUNER/BAND button
- ④ Track (tune) number buttons (No. 1 - No. 10, +10)
- ⑤ Preset station buttons (No. 1 - No. 10, +10)
- ⑥ SIDE A/B button
- ⑦ EDIT button
- ⑧ SHIFT button
- ⑨ POWER button
- ⑩ CD search/DOWN and UP button (◀◀, ▶▶)
- In the CD mode, to scan to the beginning of a tune and to start forward or reverse search.
- In the tuner mode, to tune to broadcasts. (Also used to set the time and timer.)
- ⑪ CD DOOR button (▲)
- ⑫ VOLUME buttons
- + : Use to increase the volume.
- : Use to decrease the volume.
- ⑬ ACTIVE HYPER-BASS button
- ⑭ MEMORY button
- ⑮ CALL button
- ⑯ INTRO button
- ⑰ RANDOM button
- ⑱ REPEAT button

Press this button while the SHIFT button ⑦ is pressed.

Playing an entire disc ... The following example assumes a compact disc with 12 tunes and a total playing time of 48 minutes 57 seconds.

Operate in the order shown

- ① Set to on.
- ② Set to the CD mode.
 - If the PLAY button of the deck is pressed, press the STOP/EJECT (■/▲) button to set to the stop mode.
 - When a CD is first loaded, the total number of tracks (tunes) and total playing time are displayed.
- ③ Press to open the CD door.
- ④ Load a disc with the label side facing up. Press to close the CD door. (The door can be closed by pressing the ►|| button.)
- ⑤ Press to start play.
 - As tunes are played, their track numbers go out one by one.

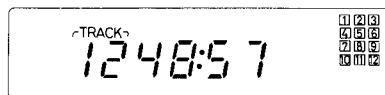
Note:

When the CD door is closed by pressing the ►|| button, the CD starts as soon as the CD door is closed.

To stop play

- **To stop in the middle of a disc**
During playback, press the STOP/CLEAR button to stop play.

■ STOP/CLEAR



To stop a disc temporarily

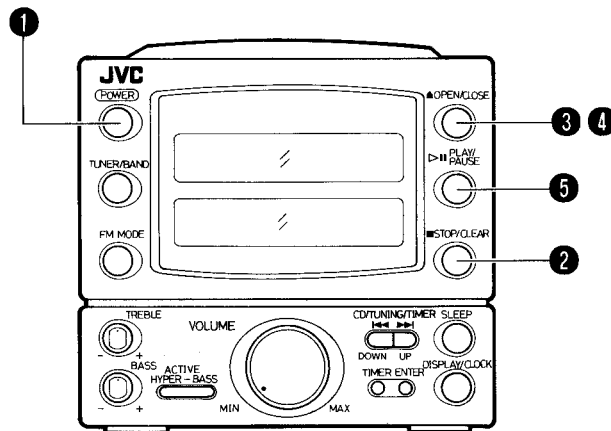
Press the PLAY/PAUSE button to stop play temporarily. When pressed again, play resumes from the point where it was paused.

Cautions:

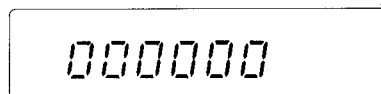
- To change discs, press the STOP/CLEAR button; check that the disc has stopped rotating completely before unloading it.
- Since the disc cannot be unloaded when the power is set to STANDBY, switch the power on and press the OPEN/CLOSE button to unload the disc.

Notes:

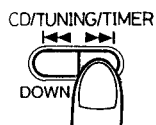
- The following indication may be shown when a disc is dirty or scratched, or when the disc is loaded upside down.
In such a case, check the disc and insert again after cleaning the disc or turning it over.



- The total number of tracks (tunes) and total playing time are displayed.



- Do not use the unit at excessive high or cold temperatures. The recommended temperature range is from 5°C (41°F) to 35°C (95°F).
- After playback, unload the disc and close the CD door.
- If mistracking occurs during play, lower the volume.
- Mistracking may occur if a strong shock is applied to the unit or if it is used in a place subject to vibrations (i.e. in a car travelling on a rough road).

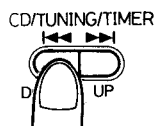


Skip playback

- During playback, it is possible to skip forward to the beginning of the next tune or back to the beginning of the tune being played or the previous tune; when the beginning of the required tune has been located, play starts automatically.

To listen to the next tune ...

Press the ►► button once to skip to the beginning of the next tune.

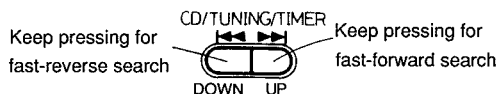


To listen to the previous tune ...

Press the ◀◀ button to skip to the beginning of the tune being played back and press again to skip to the beginning of the previous tune.

Search playback (to locate the required position on the disc)

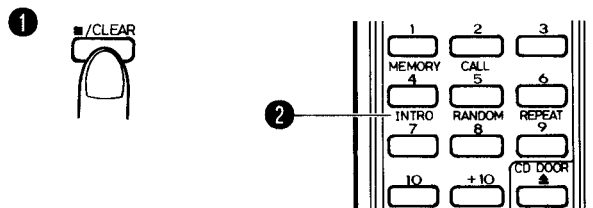
- The required position can be located using fast-forward or reverse search while playing a disc.



- Hold down the button; search play starts slowly and then gradually increases in speed.
- Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

Direct access playback (using the remote control)

- Pressing any of the track number buttons will start play from the beginning of the designated tune, without your having to press the CD ►/■ button. (This function cannot be used during programmed play.)



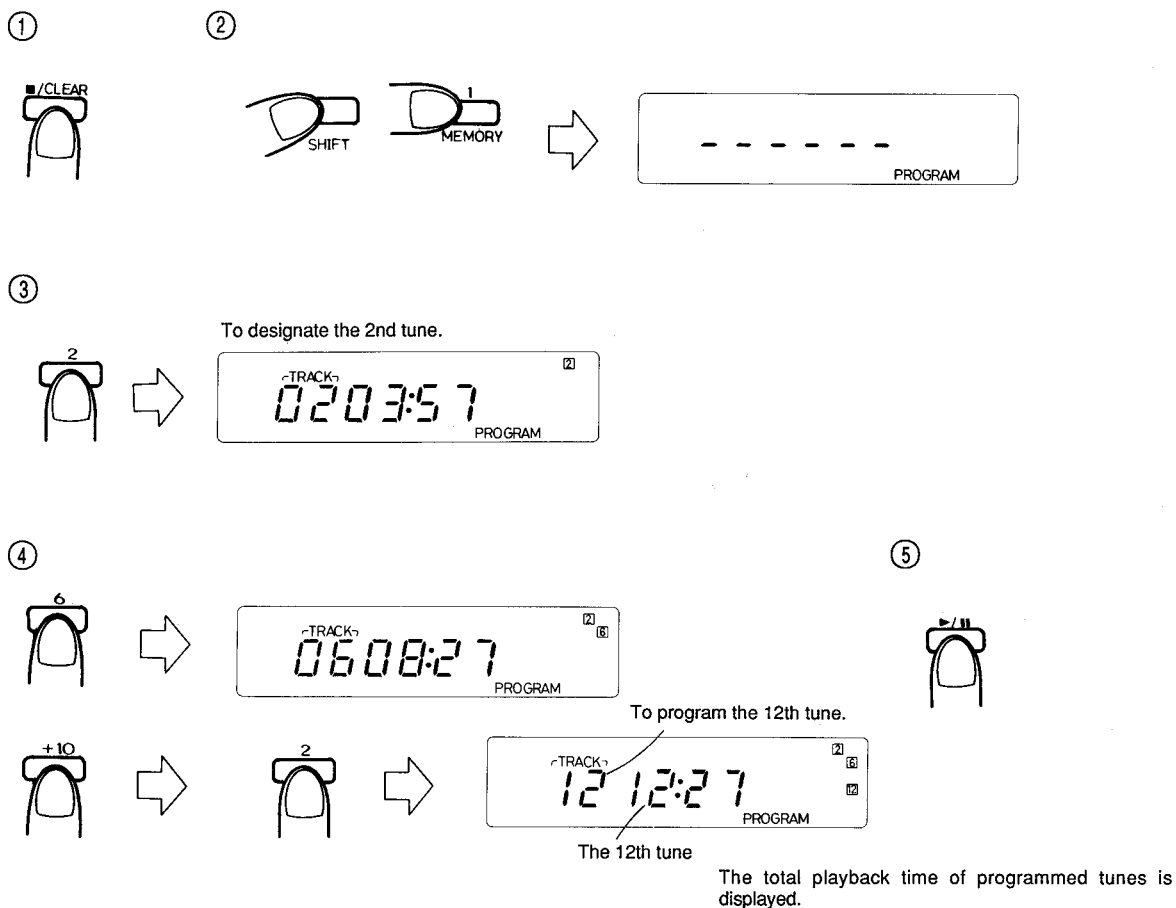
- 1 Press the ■/CLEAR button to set to the CD mode.
 - If the PLAY button of the deck is pressed, press the STOP/EJECT (■/▲) button to set to the stop mode.
 - 2 Designate the required tune using the track number buttons.
 - To designate tune numbers 1 to 10, press the track number button corresponding to the tune (track) number.
 - To designate tune number 11 or higher, press the +10 button the required number of times, then the track number button. (Example: To designate the 25th tune, press the +10 button twice, then press track number button 5.)
- * +10 button:**
Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.
- **To skip to another tune during play**
When the required track number button is pressed, the display shows the designated track number and play starts from the beginning of the designated tune.

Programmed play (using the remote control)

- Up to 20 tunes can be programmed to be played in any required order.

The total playing time of programmed tunes is displayed (up to 99 minutes, 59 seconds).

(Example: When programming the 2nd tune to be played first, the 6th tune next, and then the 12th tune, etc.)



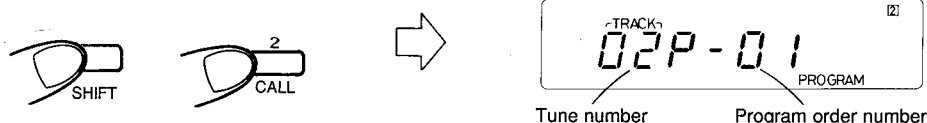
- Press the **■/CLEAR** button.
- Press the **MEMORY** button while pressing the **SHIFT** button to set to the programming mode.
- Press to designate the required track number.
- Designate the remaining tunes by pressing the track number buttons.
- Press the **▶/||** button when programming is completed. Programmed playback starts.

To clear the programmed tunes ...

Press the **■/CLEAR** button before playing a disc. During programmed playback, press this button twice. When the CD door is opened, programmed tunes are cleared automatically.

To confirm the details of a program...

Press the CALL button while pressing the SHIFT button; the tunes making up the program will be displayed in programmed order.

**Notes:**

1. If the total playing time of the programmed tunes exceeds 99 minutes 59 seconds, the total playing time indication will go out.
2. Programming 21 or more tunes is impossible.
3. When a disc with 16 or more tunes is loaded, the "OVER" indicator will appear.
4. When performing timer playback in the order of "Programmed play", step ⑤ above is not required.

Repeat play (using the remote control)

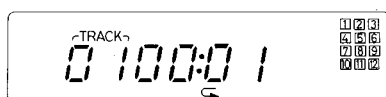
Press the REPEAT button while pressing the SHIFT button before or during play. A single tune or all the tunes can be repeated.

Whether a single tune or all tunes are to be repeated can be specified. Each time the REPEAT button is pressed while pressing the SHIFT button, the mode will change from a single tune (), to all the tunes (), to the clear mode, in this order.



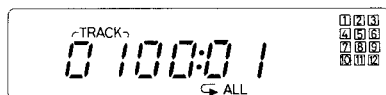
- **Repeat playback of a single tune ()**

The tune being played back will be heard repeatedly.

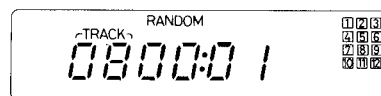


- **Repeat playback of all tunes (ALL)**

When playing back an entire disc or programmed tunes, all tunes or the programmed tunes will be heard repeatedly.

**Random playback (using the remote control)**

Press the RANDOM button while pressing the SHIFT button, all tunes on a disc are played once, in random order.

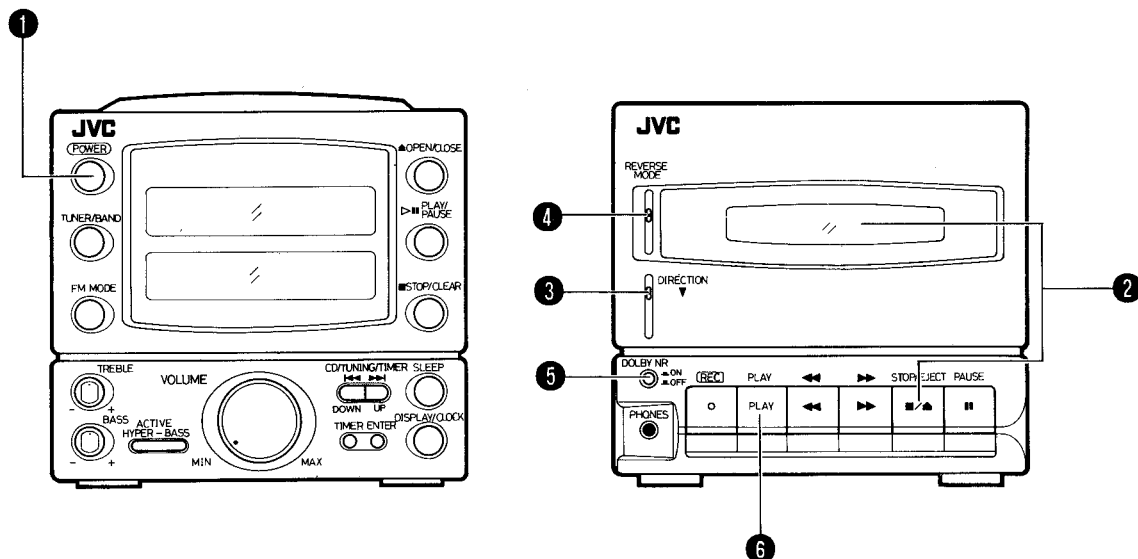
**INTRO scan operation (using the remote control)**

- Simply press the INTRO scan button while pressing the SHIFT button to play the first 15 seconds of each tune. The operation is released after playing the introductions of all tunes or all programmed tunes.
- If the INTRO scan button is pressed in the middle of a tune while pressing the SHIFT button, the intro scan operation will start from the next tune.
- To release the intro scan mode, press the INTRO scan button again while pressing the SHIFT button and normal playback (or programmed playback) will resume.



CASSETTE PLAYBACK

Operate in the order shown

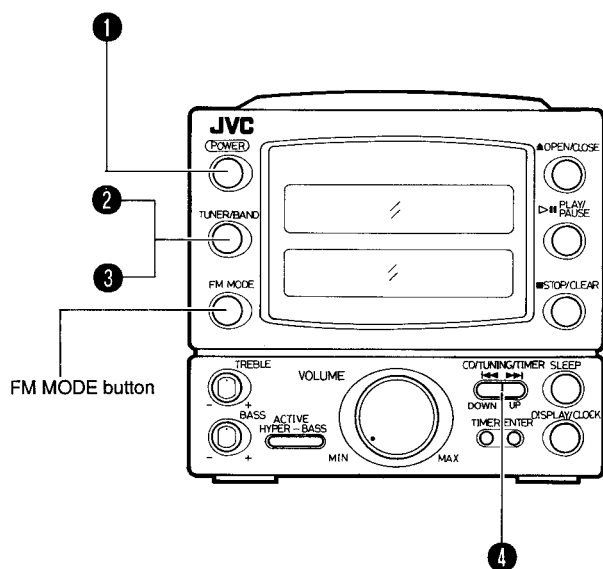


- 1 Set to on.
- 2 Load a cassette with side A facing out.
- 3 Select the direction of tape travel
- 4 Select the reverse mode (\rightleftarrows / \rightarrow / \leftarrow).
- 5 Set the DOLBY NR switch as required.
- 6 Press to start playback.

- When the tape is played back with the reverse mode set to the \rightleftarrows (single side play) or \rightarrow (both side play) mode, the tape stops automatically at the end of tape after playing one side or both sides.

RADIO RECEPTION

Operate in the order shown



- 1 Set to on.
- 2 Press the TUNER/BAND button; a band and radio frequency will be shown in the display.
 - If the PLAY button of the deck is pressed, press the STOP/EJECT ($\blacksquare/\blacktriangle$) to set to the stop mode.
- 3 Select the band (FM or AM (MW/LW)).
- 4 Tune to the required station.

FM MODE button

AUTO:

Set to this position when listening to or recording an FM stereo broadcast. The stereo indicator lights when the FM stereo broadcast is received.

MONO:

Set to this position when FM stereo reception is noisy.

- **Seek tuning**

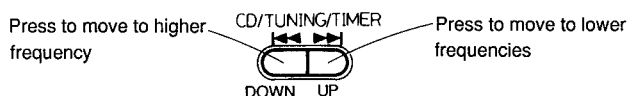
Press the UP or DOWN button for one second or more; the unit enters the seek tuning mode and tunes to higher or lower frequencies, and when the broadcast is received, it stops tuning automatically and the broadcast can be heard.

In AM operation, the frequency moves continuously from the MW to the LW band and vice versa.

- **Manual tuning**

Each time the UP or DOWN button is pressed, the unit steps through the current frequency band. Tuning is in steps of 50 kHz for FM and 9 kHz for AM (MW/LW).

In AM operation, the frequency moves continuously from the MW (522 - 1,629 kHz) to the LW (144 - 288 kHz) band and vice versa.



Notes:

- When seek tuning to the required station is not possible because it is broadcasting too weak a signal, press the UP or DOWN button momentarily to perform manual tuning.
- When the power is set to STANDBY, or another mode (TAPE or CD) is selected, the last tuned frequency is stored in memory. When the power is switched on again and TUNER/BAND button is pressed, the same station will be heard.

Using the antennas

FM: Connect the provided FM feeder antenna (see page 8).

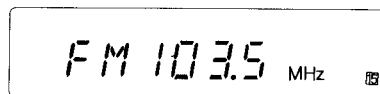
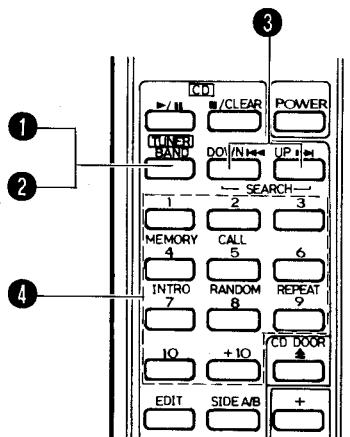
AM (MW/LW): Adjust the position of AM (MW/LW) loop antenna.

Presetting stations

(using the remote control unit)

15 stations in each band (FM and AM (MW/LW)) can be preset as follows:

- Example (when presetting an FM station broadcasting at 103.5 MHz to preset button "15")



- 1 Press the TUNER/BAND button.
 - 2 Select the FM band using the TUNER/BAND button.
 - 3 Tune to the required station.
 - 4 Press preset button "+10", then "5" for more than 2 sec. (When "15" blinks in the preset station display, the station has been preset.)
- Repeat the above procedure for each of the other stations, using a different preset button each time..
 - Repeat the above procedure for the AM (MW/LW) band.

RECORDING

- In recording, the ALC circuit automatically optimizes the recording level; adjustment of the recording level is unnecessary.
- Check that the safety tab on the cassette tape is not broken off.

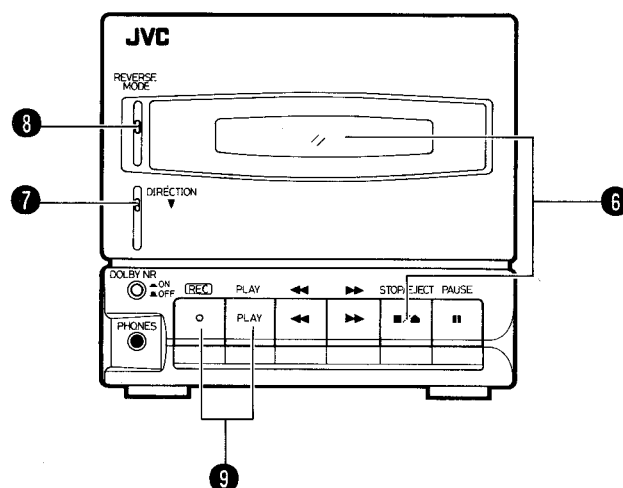
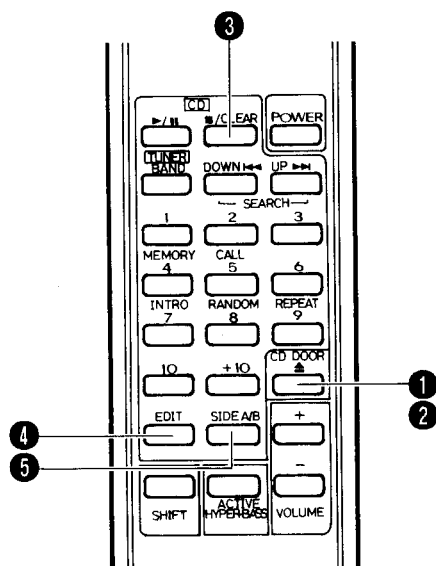
Notes:

This unit has recording characteristics suitable for normal and CrO₂ tapes. Normal and CrO₂ tapes have different characteristics from metal tape.

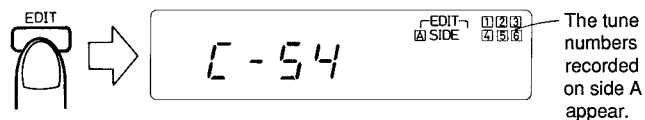
CD edit recording (for CDs with up to 99 tunes)

- By checking the total playing time of the CD, a microcomputer in the unit automatically calculates the optimum length (recording time) of the tape to be used, displays the required tape length, and divides the tunes on the disc into two groups to be recorded on the two sides of the tape so as to minimize tape waste.

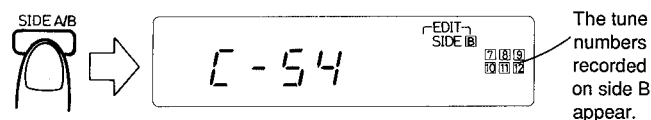
Operate in the order shown



- 1 Press to open the CD door.
- 2 Load a disc and press to close the CD door.
- 3 Set to the CD mode.
 - If the PLAY button of the deck is pressed, press the STOP/EJECT (■/▲) button to set to the stop mode.
- 4 Press the EDIT button once.



- 5 Press the SIDE A/B button.



- 6 Insert a cassette with a suitable length (recording time) with side A facing out.
 - The tape length can be set from the remote control. (See below.)
- 7 Set to the forward direction. (The ► indicator lights.)
- 8 Set to ◀ mode.
- 9 Check that the pause button of the deck has been released, then press the (●) REC button and the PLAY button to start CD edit recording.
 - During edit recording, the leader tape section (approx first 12 sec.) is wound automatically and then recording starts.

- Engage the recording mode until the end of tape of side B is reached after the CD has finished.

- **To change the tape length (recording time)**
When the EDIT button is pressed with a CD loaded, the tape length required to record the entire disc is displayed (C-46, C-54, C-60, C-74 or C-90). At this time, the displayed tape length can be changed by pressing the track number buttons.

Example: To change to C-50

Press the +10 button four times, and within 10 seconds, press the 10 button.

When the length of the tape is changed, some of the tunes that were to be recorded on side A may be indicated as to be recorded on side B or vice versa, according to the tape length specified.

Depending on the tape length specified, some tunes may not be recorded on the tape. Set the tape length (recording time) so that the entire disc can be recorded.

- **When editing a disc with 16 to 99 tunes**

CD editing can be used to record discs containing up to 99 tunes, however, the music calendar shows up to only 15 tunes.

As the 16th to 99th tunes will not appear in the program chart display (the "OVER" indicator will light), be sure to check the tunes you have recorded after completing editing.

While recording, the track number of the tune being played (and recorded) appears in the display for confirmation.

- **Set the DOLBY NR as required. The DOLBY NR indicator lights.**

Note:

The optimum sound quality will not be obtained if different DOLBY NR switch settings are used during recording and playback.

Note:

- In CD edit recording, blanks of approx. 4 seconds will automatically be left between tunes on the recorded tape.

When automatic spacing between tunes is not required ...

Perform the following:

1. Press the ▷/|| PLAY/PAUSE button of the CD player twice. The CD player enters the pause mode.
2. Press the ○ REC button with the PLAY button to start recording.

Note:

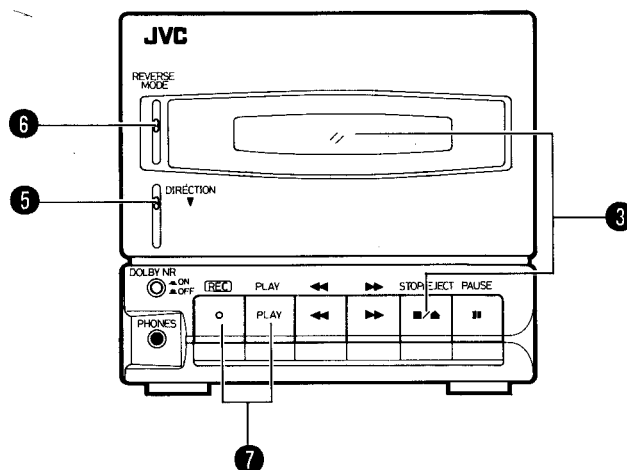
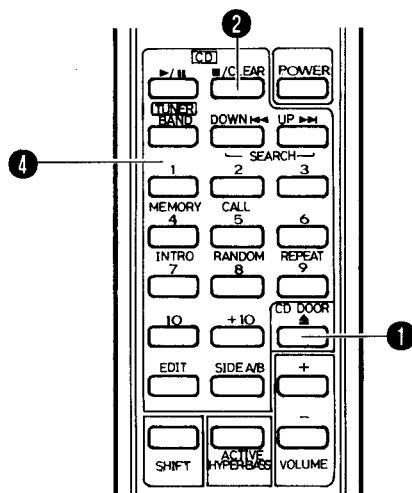
- Depending on the disc used, blanks of a specified length may be left between tunes.

- **After use**

Press the STOP/EJECT (■/▲) button to release the CD edit recording mode. (The CD edit recording mode is also released when the CD door is opened.)

Synchronized recording with the CD player

- In this system, the CD player starts playback when the cassette deck enters the recording mode.

Operate in the order shown

- 1 Load a disc and close the CD door.
- 2 Set to the CD mode.
 - If the PLAY button of the deck is pressed, press the STOP/EJECT (■/▲) button to set to the stop mode.
- 3 Load a cassette with side A facing out. (Wind past the leader tape before starting recording.)
- 4 When programmed playback is required, program the required tunes using the remote control. (See page 27.)
 - Select tunes with a total playing time which does not exceed the tape length.

- 5 Set to the forward direction. (The ► indicator lights.)
- 6 Select the required reverse mode (◄ or ►).
- 7 Press the ○ REC button with the PLAY button; synchronized recording will start.

- Non-recorded sections of approx. 4 seconds are automatically left between tunes.
- To stop recording in the middle of a tape, press the STOP/EJECT (■/▲) button of the cassette deck.

• **CD complete recording function (synchro recording mode only)**

If the tape is reversed while a CD is being played, recording will be done on the reverse side of the tape as follows:

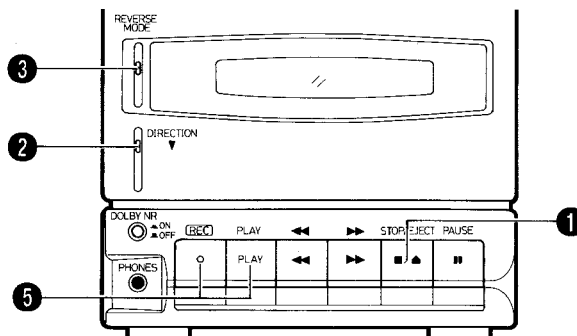
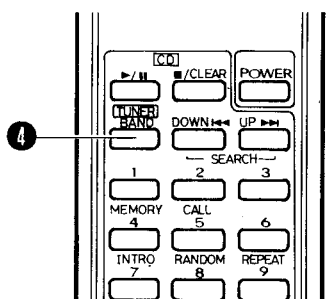
- * When less than 10 seconds of the last tune on the forward side of the tape have been recorded, recording on the other side of the tape will start from the beginning of the previous tune.
- * When more than 10 seconds of the last tune on the forward side of the tape have been recorded, recording on the other side of the tape will start from the beginning of the current tune.

Note:

- During CD edit recording and synchro recording, the SEARCH button do not function.

Recording from the radio

Operate in the order shown



- 1 Load a cassette with side A facing out.
(Wind past the leader tape before starting recording.)
- 2 Set to the forward direction. (The ► indicator lights.)
- 3 Select the required reverse mode (↔ or ⇄).
- 4 Press the TUNER/BAND button. Tune to the required station.
- 5 Press the O REC button with the PLAY button.
 - The function switch is locked and its position cannot be changed.
- To stop recording temporarily, press the ■ PAUSE button. To resume recording, press the ■ PAUSE button again.

Note:

The CD door cannot be opened or closed during radio recording.

Erasing

When recording on a pre-recorded tape, the previous recording is automatically erased and only the new material can be heard when the tape is played.

To erase a tape without making a new recording...

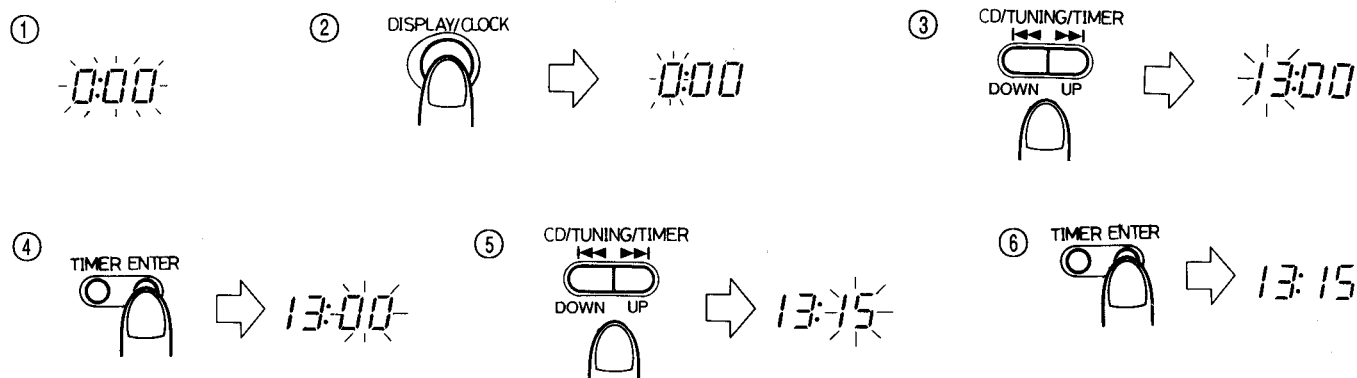
Press the PLAY button of the deck to set to the TAPE mode and press the O REC and PLAY buttons together after pressing the stop button.

It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

CLOCK ADJUSTMENT

Setting the current time (when the UX-A3 is used for the first time)

(Example: to set the clock to 13:15.)



- ① Connect the AC power cord; "0:00" will blink in the display.
 - Set to the standby mode; do not press the POWER button.
 - ② Press the DISPLAY/CLOCK button for 2 sec. or more: the hour's digits will blink.
 - ③ Set to 13:00 by pressing the TIMER buttons (UP/DOWN).
 - ④ Press the ENTER button; the minute's digits will blink.
 - ⑤ Set to 13:15 by pressing the TIMER buttons (UP/DOWN).
 - ⑥ Press the ENTER button; the time will light continuously in the display.
- To set to the nearest second...
Press the ENTER button when you hear the time signal from a TV or radio.

Notes:

- Before performing timer recording or playback, it is necessary to set the current time.
- It is recommended to set the current time with the power switch set to STANDBY so that the current display mode is maintained.
- When the power cord is plugged in again after being disconnected or power is restored after a power failure, clock display will blink or light in the display. Set the current time again.
- Press the DISPLAY/CLOCK to display the current time during CD play, tape play or radio reception. The current time will be displayed for 10 sec. after which the display returns to the previous mode.

TIMER OPERATIONS

Timer recording

- The current time must be set correctly before you set timer recording.
- Make sure that the erase protection tabs of the cassette have not been broken off.

Operations

1. Set the POWER button to ON.
2. Load a cassette.
 - Insert the cassette with the side to be recorded facing out.
 - Set the DIRECTION switch to the forward direction. (The ► indicator lights.)
 - Set the reverse mode button to "↺" or "↻" and set the DOLBY NR button as required.
3. Set the timer start and stop times, then set the required volume, in this order. (Refer to "Setting the timer" on page 47.)
 - Set the timer about a minute before the broadcast to be recorded is scheduled to start.
4. Press the TUNER/BAND button.
 - Tune to the station to be recorded. (Refer to page 33.)
5. Set the POWER button to STANDBY.

6. Press the O REC and PLAY buttons of deck simultaneously
 - If the DIRECTION switch is pressed before the (O) REC and PLAY buttons are pressed, the (O) REC and PLAY buttons cannot be pressed.

Note:

Timer recording will start at the preset time, the power will not be switched off at the timer-off time during tape operation, but it will be switched off when the tape ends. However, the power cannot be switched off when the reverse mode is set to "↺" or the deck is set to the pause mode.

- When timer recording is completed, the timer mode is switched to the "TUNER" (timer reception of broadcast) mode.

• To cancel timer operation

Press the TIMER button so that the timer mode indicator (⊕) goes out.

If you do this, timer recording will not start at the timer start time.

Notes:

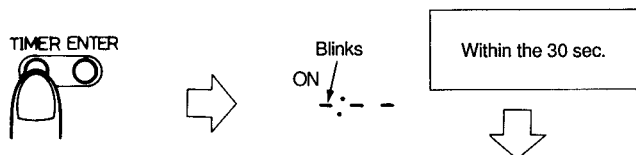
Once the timer has been set, the start and stop times, etc., are stored in memory. When timer recording or playback is required at different times, the timer must be set again.

- After setting the timer start and stop times, check that the unit is tuned to the required frequency.
- When the power cord is disconnected or there is a power failure, timer settings will be erased from memory. If this happens, set the current time and perform the timer setting again.

Setting the timer

- The current time must be set before the timer can be used.

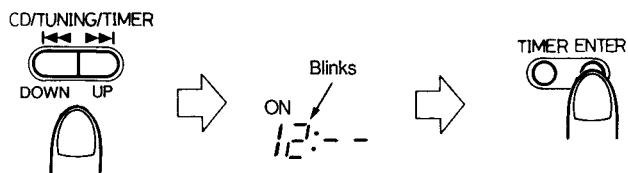
1 Press the TIMER button.



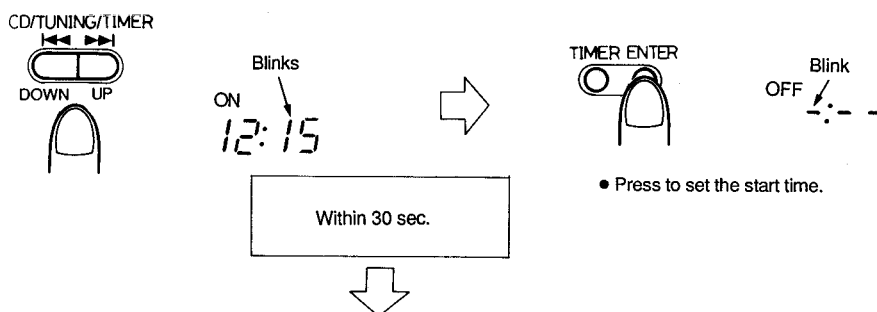
2 Set the start time.

(Example: when the timer start time is set to 12:15)

① Adjust the hours.



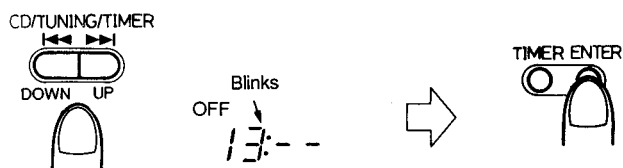
② Adjust the minutes.



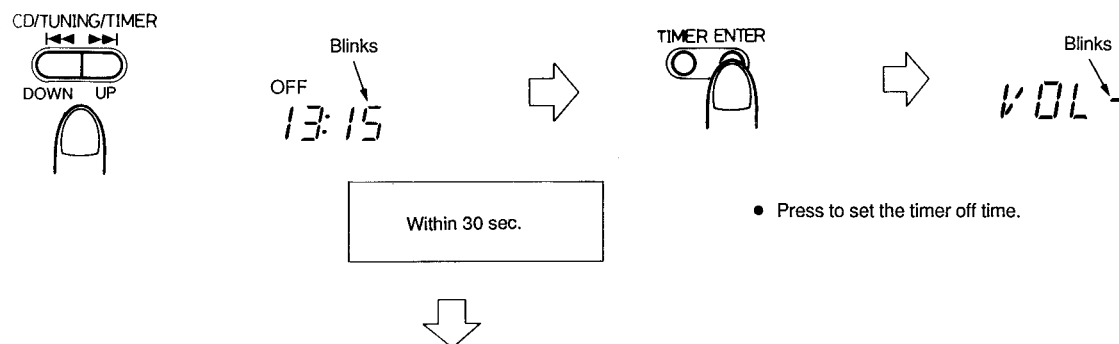
3 Set the stop time

(Example: when the timer stop time is set to 13:15.)

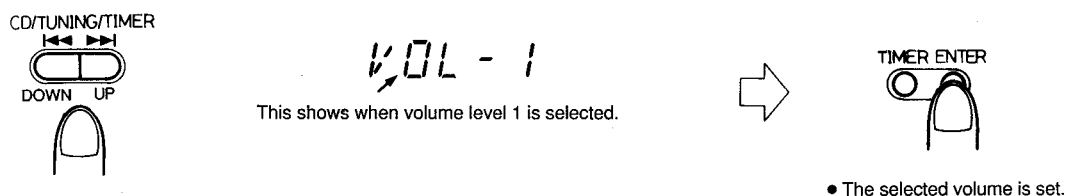
① Adjust the hours.



② Adjust the minutes.

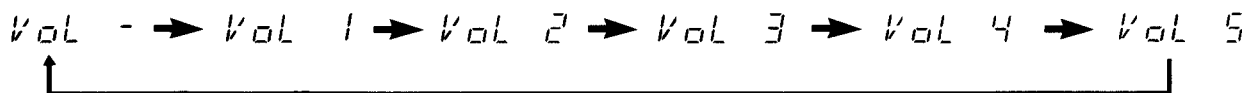


④ Set the volume.



The playback level is determined by the position of VOLUME control.

When the UP button is used to select the volume.



The volume decreases to zero at the timer start time, and the sound fades in. (Volume level 5 is approximately the same as when the VOLUME control is set to its center position.)

- The unit enters the previously engaged mode and timer setting is complete.

- **To check the timer setting**

1. Press the TIMER button.
2. Press the ENTER button to check the timer mode.
3. When the previously engaged mode is displayed, timer setting has been completed.

Notes:

- When the timer is set incorrectly, perform "Setting the timer" from the beginning.
- When the timer is set, ":-:" in the display is replaced by the input digits.
- When the timer stop time is not set, the timer operates for 2 hours and then the unit is switched off. When the timer is already set, display the timer stop time, change the hours digits to ":-:" using the UP button and press the ENTER button.

Timer playback

- Timer playback of tapes, broadcasts and CDs is possible.

Operations

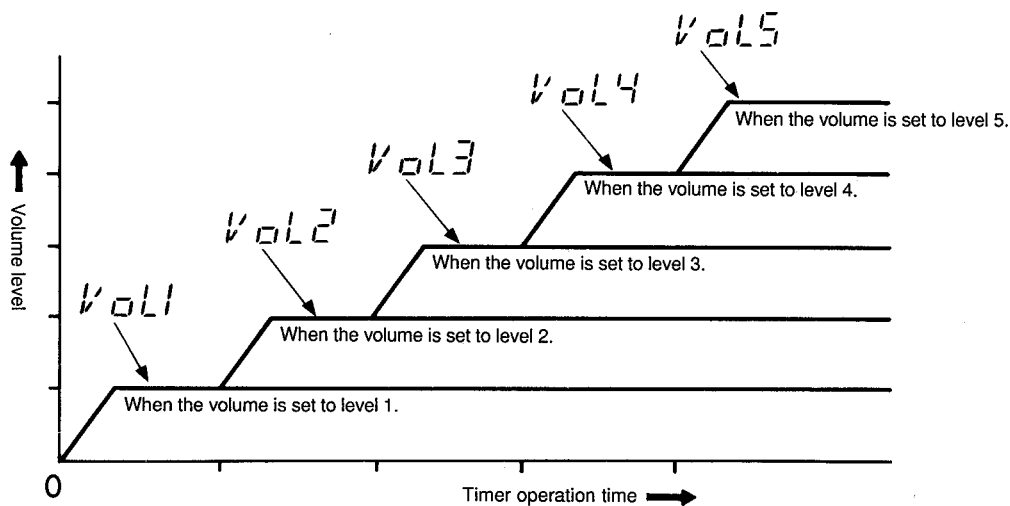
- 1 Set the POWER switch to ON.
- 2 Set the timer start and stop times, then set the volume, in this order. (Refer to "Setting the timer" on page 47.)
- 3 Select the source sound.

Source sound	Timer mode	Operations
CD play	CD	Load a disc and press the ■ STOP/CLEAR button to set the CD mode.
Tape playback	TAPE	Load a cassette tape and select the tape travel direction.
Radio broadcast	TUNER	Press the TUNER/BAND button to set to the tuner mode and tune to the required frequency.

- Timer playback of a CD is possible in programmed order. (See page 27.)
- The volume can be set to 5 different levels.
- Tune to the required frequency when the timer playback of a broadcast is to be performed.

- 4 Switch the power off.
(When performing the timer playback of tape, press the PLAY button of the deck. Do not press the DIRECTION switch before pressing the PLAY button.)
- Timer playback will start at the timer start time and the power will be switched off at the timer stop time. (Tuner or CD)
The power will not be switched off at the specified time during tape operation and will switched off at the tape end. However, the power will not be switched off when the reverse mode is set to " " or the deck is set to the pause mode.
The unit remains in the same timer mode even after the power is switched off and the same timer function will be repeated at the same time on the following day.

- Volume setting and fade-in operation



- When the power is switched on, it is possible to fade in the sound from volume level 0 (zero) to the preset volume.
- **To cancel timer operation**
Press the TIMER button so that the timer mode indicator (⌚) disappears. (To set to the timer mode again, press the TIMER button twice so that the timer mode indicator (⌚) appears.)

Notes:

- When the volume setting is set to "VoL -" (volume level is not specified), the timer playback volume is set to that of before setting the timer.
- To stop during timer playback, press the POWER button to switch the unit off.
- In the fade-in mode, the volume gradually increases from zero.

SLEEP OPERATIONS

Use this when you want to fall asleep while listening to a tape, radio broadcast or CD.

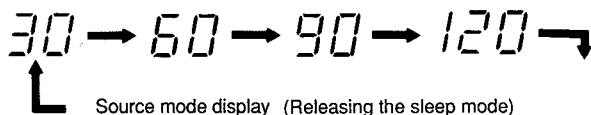
- ① Set to the required source

	Operations
Radio broadcast	Press the TUNER/BAND button to set to the tuner mode and tune to the required frequency.
CD play	Load a disc and press the ► button to play the disc.
Tape playback	Load a cassette and press the PLAY button to play back the tape.

- ② Press the SLEEP button to set to the sleep time.



SLEEP is shown in the display



- Sleep times of 30, 60, 90 or 120 minutes can be set. When you release the SLEEP button, the source is displayed after 10 sec.

- The sleep operation will start and the power will be switched off after the specified time. (Tuner & CD modes)

The power will not be switched off at the specified time during tape operation and will switched off at the tape end. However, the power will not be switched off when the reverse mode is set to "↺" or the deck is set to the pause mode.

- **Checking the sleep time**

When the SLEEP button is pressed, the remaining sleep time is displayed. If it is pressed again, a new sleep time can be set.

- **To cancel the sleep operation**

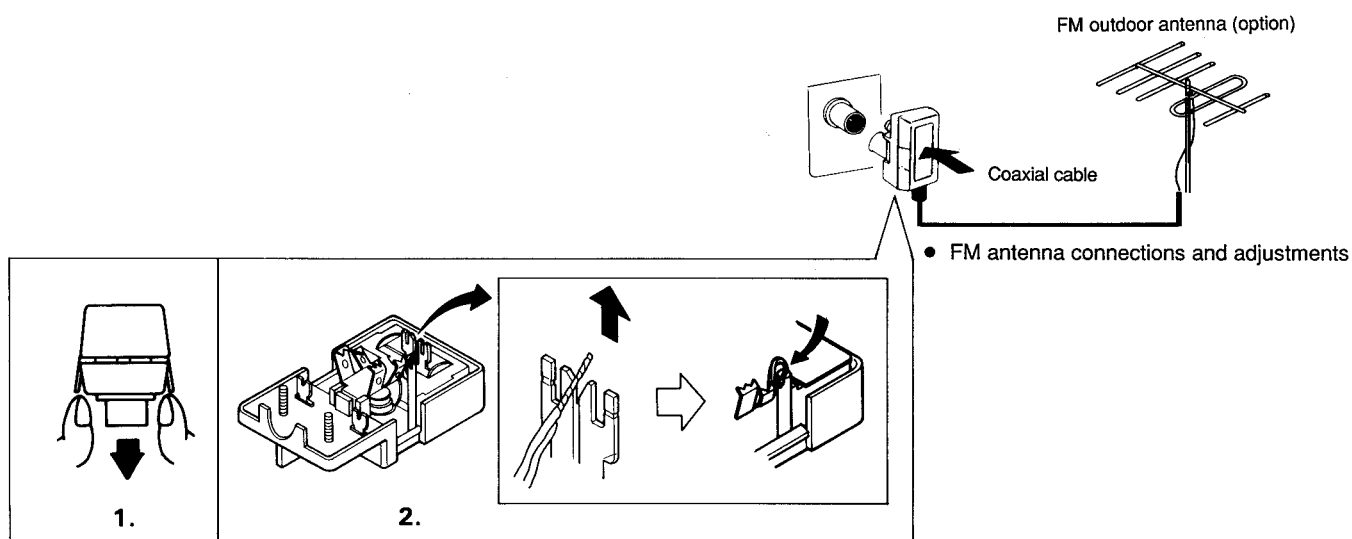
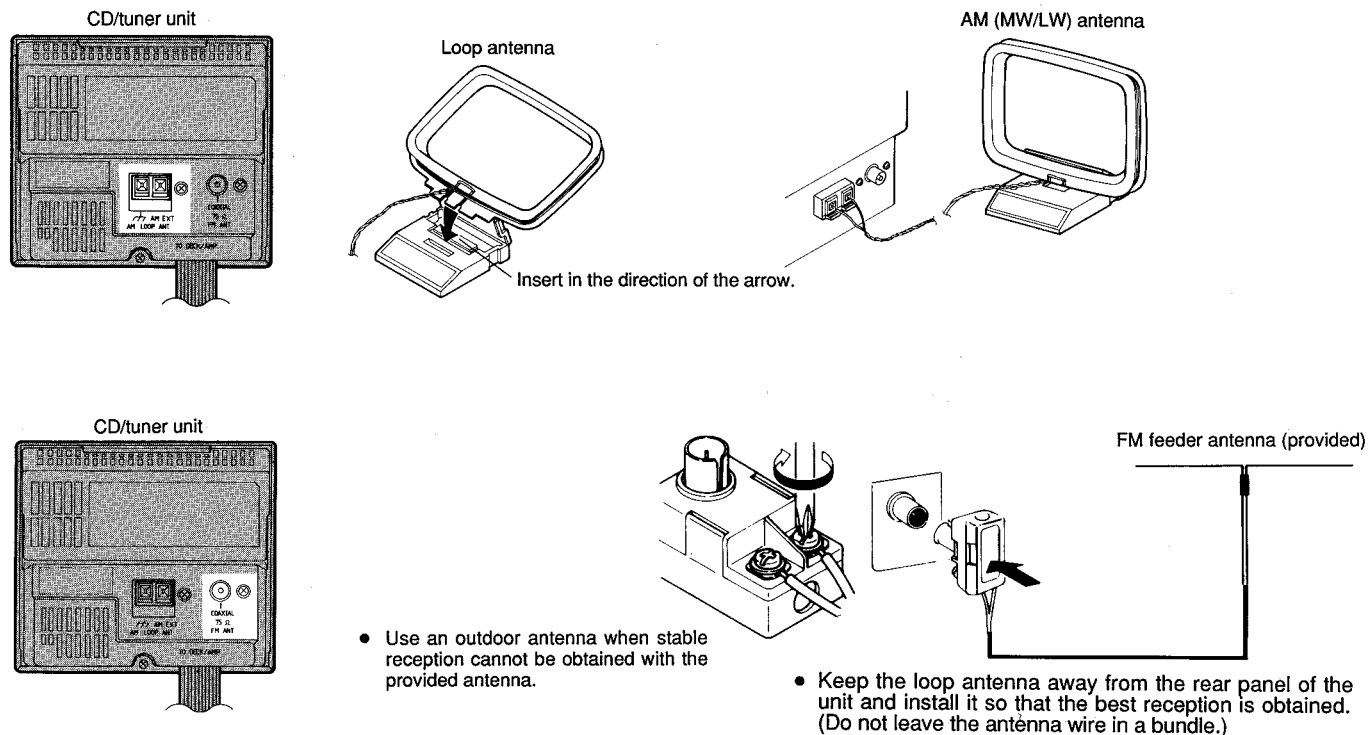
Press the POWER button to switch the power off.

CONNECTIONS

- Do not switch the power on until all connections are complete.

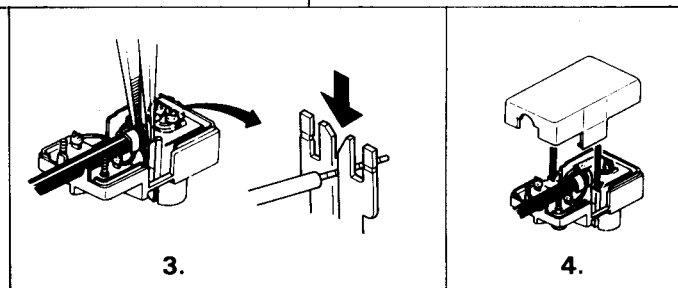
Antenna connection and adjustment

- AM (MW/LW) loop antenna adjustment



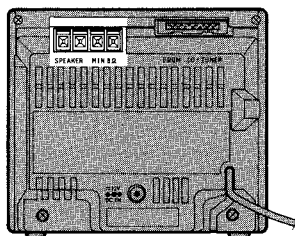
Notes:

- Do not place the loop antenna on a metal desk or near a TV or personal computer.
- Installing an outdoor antenna requires experience; we recommend that you consult an audio dealer.
- Install the antenna cord away from the power and speaker cords as these could generate noise. Install the loop antenna so that it does not touch the rear of the unit.

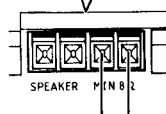
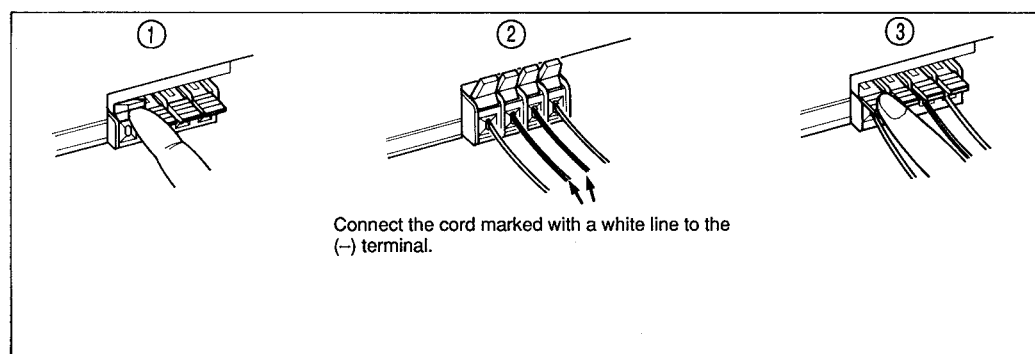


Speaker cord connection

- Use the speaker cords provided to connect the deck/amp and speakers.

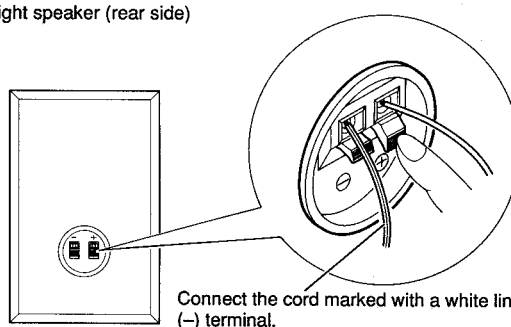


Deck/amp unit



Right speaker (rear side)

Left speaker (rear side)

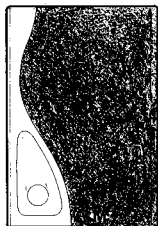


Speaker cord provided

- Connect the cord from the speaker on the left to the (L) terminals and the cord from the speaker on the right to the (R) terminals.

- The speaker grilles can be removed.
 - When removing (the example shows the left speaker).
 - ① Insert your fingers at the top and pull towards you.
 - ② Also pull the bottom towards you.

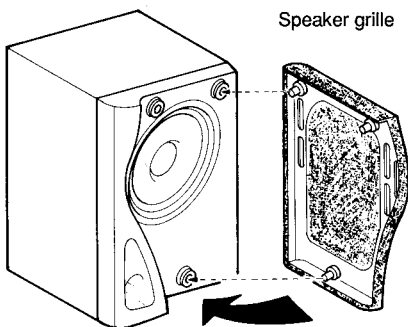
Left speaker



- Attaching the speaker grille

Left speaker

Speaker grille



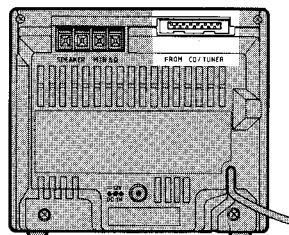
Match the fittings when attaching the grille.

Notes:

- The polarity with which the two speakers are connected will be the same if the speaker cords marked with a white line are connected to the (-) terminals. If the speakers are connected with reverse polarity, the stereo effect and tone will be degraded.
- The speakers of this unit are not magnetically shielded. When they are placed directly on or adjacent to a TV, the TV's color could be distorted. Install the speakers more than 10 cm away from your TV.
- If the speakers are to be placed away from the main unit, purchase optional speaker cords from an audio store.

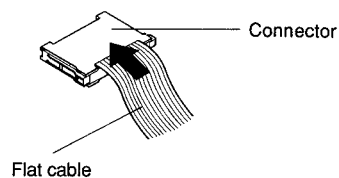
System connection

- Connect the flat cable connected to CD/tuner unit to the deck/amp unit.

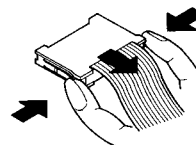


Deck/amp unit

- When connecting



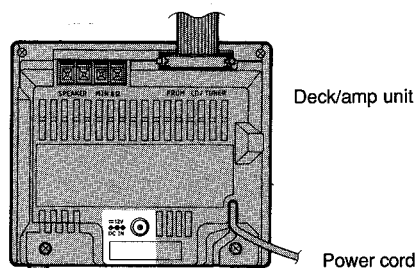
- When disconnecting



POWER SUPPLY


A. Connection of AC power cord

- Connect the AC power cord after all other connections have been made.



B. Operation on car battery (DC 12 V)



- First connect the car adapter to the DC IN 12 V jack, not the cigarette lighter socket, because shorting of a plug on the car may cause the fuse to blow out. In addition, be careful not to make a short-circuit between the plugs.
- **When using a car battery, be sure to use the specified car adapter (marked  available from an audio store) to prevent mishaps or damage resulting from different polarity design.**

Notes:

- When there is a power failure or the AC power cord is disconnected, the timer/clock setting is erased from memory. Reset the clock when the power supply is restored.
- Do not block the ventilation holes of the deck/amp unit so that heat can escape. Do not install the unit in a badly ventilated place.